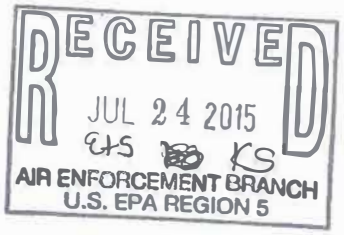
LAFARGE
CEMENT



July 22, 2015

Phillip Brooks
Air Enforcement Division Director
U.S. Environmental Protection Agency
MC 2242A
1200 Pennsylvania Ave.
Washington, D.C. 20460

Object: Lafarge – U.S. EPA Consent Decree
Semi-Annual Report for the Joppa, IL facility

Dear Mr. Brooks,

Pursuant to section XII (Reporting Requirements) paragraph 106 of the Consent Decree entered in the matter of the United States v Lafarge North America Inc., et al, please find herewith the semi-annual report covering the period from January 1st to June 30th, 2015 for the Joppa, Illinois facility.
This report contains a table with daily production and mass emission data, as well as intensity rate data (lbs/ton of clinker). Except for the intensity rate, which Lafarge recognizes is necessary to demonstrate compliance with the emissions limits of this Consent Decree, the other daily data in the table would provide information regarding production and kiln capacity which Lafarge considers proprietary and should be treated as confidential business information.

Respectfully submitted,

Jean-Francois Latimier
Compliance Director, EPA projects

cc: per transmittal form attached

LAFARGE NORTH AMERICA INC.
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LAFARGE NORTH AMERICA	DOCUMENT TRANSMITTAL	13560 Morris Road Suite 3350 Alpharetta, GA, 30004	Tel: 678-746-2000 Fax: 678-867-1450
LAFARGE – U.S. EPA CONSENT DECREE		***Date:***	Jul 22, 2015
		Affected Plant:	Joppa, IL
Issued to:	U.S. EPA MC 2242A 1200 Pennsylvania Ave. NW Washington, D.C. 20460	***Attention:***	**Phillip Brooks**

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Project File	Hard copy	Lafarge North America Inc.	Alpharetta, GA

DOCUMENTS

DOCUMENT NO.	DOCUMENT NAME	DOCUMENT DESCRIPTION
JPA-ALL-GEN-SA-033	JPA Jan-Jun 2015 Semi-Annual Report.pdf	Semi-Annual Report for Joppa – January-June 2015

Contains Confidential Business Information

LAFARGE - U.S. EPA Consent Decree Semi-Annual Report

Plant: Joppa
Affected state: Illinois
Reporting period: Jan 1, 2015 to Jun 30, 2015

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1. Introduction

Pursuant to the terms of the Consent Decree between the Lafarge Companies, the United States and certain Affected States, several of Lafarge's U.S. cement plants are required to implement various control technologies on certain kilns in order to reduce sulfur dioxide (SO_2) and/or nitrogen oxide (NO_x) emissions.

A requirement of the Consent Decree is the submittal of a report after the end of each half calendar year. This document is the semi-annual report covering the period between January 1, 2015 and June 30, 2015 for the Joppa, Illinois plant under Section XII Paragraph 106 of the Consent Decree.

The structure of this document follows the requirements specified in the Consent Decree.

2. Information required under Paragraph 106 of the Consent Decree

The italicized text in this document are excerpts from the Consent Decree.

a. Progress of installation of Control Technologies

"Identify any and all dates on which the Lafarge Companies have installed, or describe the progress of installation of, each Control Technology required under Section V (NO_x Control Technology, Emission Limits, Tonnage Limits and Monitoring Requirements) and Section VI (SO_2 Control Technology, Emission Limits, Tonnage Limits and Monitoring Requirements), and describe any problems encountered or anticipated during such installation, together with implemented or proposed solutions"

Kiln	C.T.	Date of Installation	Progress of Installation	Problems Encountered	Implemented or Proposed Solutions
K1	SCR	Installed	Completed, operational as of July 31,2013	None	n/a

b. Progress of installation of CEMS

"Identify any and all dates on which the Lafarge Companies have completed installation of, or describe the progress of installation of, each CEMS required under Section V.B (NO_x Continuous Emission Monitoring Systems)and Section VI.B (SO_2 Continuous Emission Monitoring Systems), and describe any problems encountered or anticipated during such installation, together with implemented or proposed solutions"

Kiln CEMS	Date of Installation	Progress of Installation	Problems Encountered	Implemented or Proposed Solutions
K1	SO_2 July 1998 NO_x Dec 2001	In operation since installation	None	N/A

c. Temporary Cessation of Kiln Operation

"Identify any and all dates on which the Lafarge Companies Temporarily Ceased Kiln Operation pursuant to Section VII (Temporary Cessation of Kiln Operation)"

During the period covered by this report none of the Joppa, Illinois kilns subject to this Consent Decree have been subject to Temporary Cessation.

d. CEMS data

"Provide all CEMS data collected for each Kiln, including an explanation of any periods of CEMs downtime together with any missing data for which the Lafarge Companies applied missing data substitution procedures, under Section V.B (NO_x Continuous Emission Monitoring Systems) and Section VI.B (SO_2 Continuous Emission Monitoring Systems)"

CEMS data collected for each kiln are in Appendix A of this document.

Kiln 2 did not operate between January and June 2015.

e. Compliance with all applicable Demonstration-Phase Facility-Wide 12-Month Rolling Average Emission Limits

"Demonstrate compliance with all applicable Demonstration-Phase Facility-Wide 12-Month Rolling Average Emission Limits in Section V (NO_x Control Technology, Emission Limits, Tonnage Limits and Monitoring Requirements) and Section VI (SO_2 Control Technology, Emission Limits, Tonnage Limits, and Monitoring Requirements) of the Consent Decree"

The Joppa, Illinois plant is not subject to a 12-Month rolling average emission limit per the Consent Decree.

f. Compliance with all applicable Facility-Wide 12-Month Rolling Average Emission Limits

"Demonstrate compliance with all applicable Facility-Wide 12-Month Rolling Average Emission Limits in Section V (NO_x Control Technology, Emission Limits, Tonnage Limits and Monitoring Requirements) and Section VI (SO_2 Control Technology, Emission Limits, Tonnage Limits, and Monitoring Requirements) of the Consent Decree"

The Joppa, Illinois plant is not subject to a 12-Month rolling average emission limit per the Consent Decree.

g. Compliance with all applicable 30-Day Rolling Average Emission Limits

"Demonstrate compliance with all applicable 30-Day Rolling Average Emission Limits of this Consent Decree, including but not limited to those in Sections V (NO_x Control Technology, Emission Limits and Monitoring Requirements) and VI (SO_2 Control Technology, Emission Limits and Monitoring Requirements) of this Consent Decree"

The implementation of the Control Technologies is not yet at a stage where a 30-Day rolling average is applicable.

h. Compliance with all applicable 12-Month Rolling Tonnage Limits

"Demonstrate compliance with all applicable 12-Month Rolling Tonnage Limits under Sections V (NO_x Control Technology, Emission Limits, Tonnage Limits, and Monitoring Requirements) and VI (SO2 Control Technology, Emission Limits, Tonnage Limits, and Monitoring Requirements)"

Based on the CEMS data supplied in Appendix B compliance was achieved throughout the period as demonstrated by the maximum actual Facility-wide 12-month rolling tonnages listed in the table below:

	NO_x		SO_2	
	Facility-wide 12-month rolling tonnage limit	**Maximum actual Facility-wide 12-month rolling tonnage for the reported period**	**Facility-wide 12-month rolling tonnage limit**	**Maximum actual Facility-wide 12-month rolling tonnage for the reported period**
K1-K2	3,500 tons	470 tons	1,757 tons	440 tons

Detailed data can be found in Appendix B.

i. Compliance with the Appendix of the Consent Decree

"Provide a complete description and status of all actions the Lafarge Companies have undertaken to comply with the Appendix of this Consent Decree"

Joppa K1 SCR	Submitted/ Started on:	Approved/ Completed on:	Status
Design Report	Oct 27, 2010	Jul 25, 2011	Approved
Baseline Data collection Report	Feb 13, 2013	Mar 30, 2013	No comments received
Optimization Protocol	Feb 14, 2013	Apr 1, 2013	Approved
Optimization Period	Jul 31,2013	Dec 17, 2013	Completed
Optimization Report	Jan 16, 2014	Mar 20, 2014	Approved
Demonstration Period	Mar 22, 2014	Feb 28, 2015	Completed
Final Report	April 23, 2015	TBD	Under review

j. Compliance with any applicable 30-Day Rolling Average Emission Limits established under the Appendix of the Consent Decree

"Demonstrate compliance with any applicable 30-Day Rolling Average Emission Limits established under the Appendix of this Consent Decree"

The implementation of the Control Technologies is not yet at a stage where a 30-Day rolling average is applicable.

k. Status of the election made pursuant to Section VIII

"Describe the status of the election made pursuant to Section VIII (Election to Retire and Replace Kilns) of this Consent Decree"

Section VIII of the Consent Decree is not applicable to the Joppa, Illinois plant.

l. Status of actions undertaken pursuant to Section IX

"If applicable, describe the status of actions undertaken pursuant to Section IX Prohibition on Netting Credits or Offsets from Required Controls of this Consent Decree"

Section IX of the Consent Decree is not applicable to the Joppa, Illinois plant for the period covered by this report.

m. Status of permit applications and any proposed SIP revisions

"Describe the status of permit applications and any proposed SIP revisions required under this Consent Decree"

	Application submitted on:	Approved on:	Status
SCR Construction Permit Application	Jun 19, 2012	Sep 27, 2012	Permit 12060038 issued
Proposed SIP revision	None submitted	n/a	n/a

n. Status of any operation and maintenance work

"Describe the status of any operation and maintenance work relating to activities required under this Consent Decree"

Routine maintenance inspections of the control technology equipment are carried out periodically. A maintenance program has been developed based on available vendors' recommendations.

3. Description of non-compliance

"The semi-annual report shall also include a description of any non-compliance requirements of this Consent Decree and an explanation of the violation's likely cause and of the remedial steps taken, or to be taken, to prevent or minimize such violation"

No non-compliance has been observed during the period covered by this report.

4. Certification

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Signature: Mark E Jolce Date: 7-17-15

For Name (Print): Michael Klenk Position: Plant Manager

Appendix A: CEMS Data for each Kiln

U.S. EPA Consent Decree
Semi-Annual Report CEMS Data

Contains Confidential Business Information

Joppa, Illinois
K1

Data collection period: 01 Jan 2015 - 30 Jun 2015
Submittal date: 16 July 2015

(*) CONFIDENTIAL BUSINESS INFORMATION

Days in reporting period	Date	Kiln (clinker) production (*)	Stack NO_x Mass (*)	Stack NO_x Intensity [lb/ton KK]	Stack SO_2 Mass (*)	Stack SO_2 Intensity [lb/ton KK]	Malfunction documentation: CEMS incident type	Malfunction documentation: Explanation	Data gap documentation: Missing data	Data gap documentation: Explanation
1	2015.01.01	Non-Responsive		0.52	Non-Responsive	0.03				
2	2015.01.02	Non-Responsive		N/A	Non-Responsive	N/A			All data	Kiln down for winter Outage
3	2015.01.03			N/A	Non-Responsive	N/A			All data	Kiln down for winter Outage
4	2015.01.04	Non-Responsive		N/A	Non-Responsive	N/A			All data	Kiln down for winter Outage
5	2015.01.05			N/A	Non-Responsive	N/A			All data	Kiln down for winter Outage
6	2015.01.06	Non-Responsive		N/A	Non-Responsive	N/A			All data	Kiln down for winter Outage
7	2015.01.07			N/A	Non-Responsive	N/A			All data	Kiln down for winter Outage
8	2015.01.08	Non-Responsive		N/A	Non-Responsive	N/A			All data	Kiln down for winter Outage
9	2015.01.09			N/A	Non-Responsive	N/A			All data	Kiln down for winter Outage
10	2015.01.10	Non-Responsive		N/A	Non-Responsive	N/A			All data	Kiln down for winter Outage
11	2015.01.11			N/A	Non-Responsive	N/A			All data	Kiln down for winter Outage
12	2015.01.12	Non-Responsive		N/A	Non-Responsive	N/A			All data	Kiln down for winter Outage
13	2015.01.13			N/A	Non-Responsive	N/A			All data	Kiln down for winter Outage
14	2015.01.14	Non-Responsive		N/A	Non-Responsive	N/A			All data	Kiln down for winter Outage
15	2015.01.15			N/A	Non-Responsive	N/A			All data	Kiln down for winter Outage
16	2015.01.16	Non-Responsive		N/A	Non-Responsive	N/A			All data	Kiln down for winter Outage
17	2015.01.17			N/A	Non-Responsive	N/A			All data	Kiln down for winter Outage
18	2015.01.18	Non-Responsive		N/A	Non-Responsive	N/A			All data	Kiln down for winter Outage
19	2015.01.19			N/A	Non-Responsive	N/A			All data	Kiln down for winter Outage
20	2015.01.20	Non-Responsive		N/A	Non-Responsive	N/A			All data	Kiln down for winter Outage
21	2015.01.21			N/A	Non-Responsive	N/A				
22	2015.01.22	Non-Responsive		N/A	Non-Responsive	N/A				
23	2015.01.23	Non-Responsive		1.94	Non-Responsive	2.33				
24	2015.01.24	Non-Responsive		0.57	Non-Responsive	0.00	Malfunction	unsucessfull calibration - 1 hr	Multiple data	Part 75 applied
25	2015.01.25	Non-Responsive		0.32	Non-Responsive	0.15	Malfunction	unsucessfull calibration - 7 hrs	Multiple data	Part 75 applied
26	2015.01.26	Non-Responsive		0.55	Non-Responsive	0.24				
27	2015.01.27	Non-Responsive		0.33	Non-Responsive	0.48				
28	2015.01.28	Non-Responsive		0.26	Non-Responsive	0.32				
29	2015.01.29	Non-Responsive		0.29	Non-Responsive	0.05	Malfunction	maitenance on sample system - 1 hr	Multiple data	Part 75 applied
30	2015.01.30	Non-Responsive		0.52	Non-Responsive	0.04				
31	2015.01.31	Non-Responsive		0.28	Non-Responsive	0.02				
32	2015.02.01	Non-Responsive		0.30	Non-Responsive	0.02				
33	2015.02.02	Non-Responsive		1.26	Non-Responsive	0.32				
34	2015.02.03	Non-Responsive		0.53	Non-Responsive	0.40				
35	2015.02.04	Non-Responsive		0.41	Non-Responsive	0.03				
36	2015.02.05	Non-Responsive		0.36	Non-Responsive	0.02				
37	2015.02.06	Non-Responsive		0.33	Non-Responsive	0.01				
38	2015.02.07	Non-Responsive		0.55	Non-Responsive	0.02				
39	2015.02.08	Non-Responsive		0.39	Non-Responsive	0.03				
40	2015.02.09	Non-Responsive		0.26	Non-Responsive	0.02				
41	2015.02.10	Non-Responsive		0.35	Non-Responsive	0.02				
42	2015.02.11	Non-Responsive		0.32	Non-Responsive	0.03				
43	2015.02.12	Non-Responsive		0.35	Non-Responsive	0.03				
44	2015.02.13	Non-Responsive		0.27	Non-Responsive	0.10				
45	2015.02.14	Non-Responsive		0.27	Non-Responsive	0.01				
46	2015.02.15	Non-Responsive		0.18	Non-Responsive	0.04				
47	2015.02.16	Non-Responsive		0.21	Non-Responsive	0.12				
48	2015.02.17	Non-Responsive		N/A	Non-Responsive	N/A			All data	Kiln was down
49	2015.02.18			N/A	Non-Responsive	N/A				
50	2015.02.19	Non-Responsive		10.55	Non-Responsive	24.22				
51	2015.02.20	Non-Responsive		6.21	Non-Responsive	0.82	Malfunction	unsucessfull calibration - 1 hr	Multiple data	Part 75 applied
52	2015.02.21	Non-Responsive		0.15	Non-Responsive	0.11				
53	2015.02.22	Non-Responsive		0.95	Non-Responsive	0.21				
54	2015.02.23	Non-Responsive		2.45	Non-Responsive	0.14	Malfunction	unsucessfull calibration - 1 hr	Multiple data	Part 75 applied
55	2015.02.24	Non-Responsive		0.63	Non-Responsive	0.15	Malfunction	unsucessfull calibration - 2 hrs	Multiple data	Part 75 applied
56	2015.02.25	Non-Responsive		2.12	Non-Responsive	1.23				
57	2015.02.26	Non-Responsive		2.70	Non-Responsive	1.47				
58	2015.02.27	Non-Responsive		2.04	Non-Responsive	1.65				
59	2015.02.28	Non-Responsive		1.02	Non-Responsive	0.70				
60	2015.03.01	Non-Responsive		0.88	Non-Responsive	0.52				
61	2015.03.02			0.54	Non-Responsive	0.07				

U.S. EPA Consent Decree
Semi-Annual Report CEMS Data

Contains Confidential Business Information

Joppa, Illinois
K1

Data collection period: 01 Jan 2015 - 30 Jun 2015
Submittal date: 16 July 2015

(*) CONFIDENTIAL BUSINESS INFORMATION

Days in reporting period	Date	Kiln (clinker) production (*) [ton/d]	Stack NO_x Mass (*) [lb/d]	Stack NO_x Intensity [lb/t onKK]	Stack SO_2 Mass (*) [lb/d]	Stack SO_2 Intensity [lb/ton KK]	Malfunction documentation CEMS incident type	Malfunction documentation Explanation	Data gap documentation Missing data	Data gap documentation Explanation
62	2015.03.03	Non-Responsive		1.73	Non-Responsive	1.22				
63	2015.03.04	Non-Responsive		1.66	Non-Responsive	0.35				
64	2015.03.05	Non-Responsive		1.84	Non-Responsive	0.91				
65	2015.03.06	Non-Responsive		1.47	Non-Responsive	1.84				
66	2015.03.07	Non-Responsive		1.15	Non-Responsive	1.12				
67	2015.03.08	Non-Responsive		1.34	Non-Responsive	0.25				
68	2015.03.09	Non-Responsive		1.85	Non-Responsive	1.50				
69	2015.03.10	Non-Responsive		1.34	Non-Responsive	0.43				
70	2015.03.11	Non-Responsive		1.14	Non-Responsive	1.12				
71	2015.03.12	Non-Responsive		0.80	Non-Responsive	1.39	Malfunction	sample system plugged - 4 hrs	Multiple data	Part 75 applied
72	2015.03.13	Non-Responsive		1.20	Non-Responsive	0.93				
73	2015.03.14	Non-Responsive		0.63	Non-Responsive	0.59				
74	2015.03.15	Non-Responsive		1.30	Non-Responsive	1.87				
75	2015.03.18	Non-Responsive		0.83	Non-Responsive	1.25	Malfunction	sample system maintenance - 1 hr	Multiple data	Part 75 applied
76	2015.03.17	Non-Responsive		1.89	Non-Responsive	0.62	Malfunction	sample system maintenance - 1 hr	Multiple data	Part 75 applied
77	2015.03.18	Non-Responsive		3.09	Non-Responsive	1.34				
78	2015.03.19	Non-Responsive		1.45	Non-Responsive	0.89				
79	2015.03.20	Non-Responsive		1.60	Non-Responsive	0.82				
80	2015.03.21	Non-Responsive		2.28	Non-Responsive	1.56				
81	2015.03.22	Non-Responsive		2.64	Non-Responsive	3.11				
82	2015.03.23	Non-Responsive		2.68	Non-Responsive	2.31				
83	2015.03.24	Non-Responsive		1.42	Non-Responsive	1.11				
84	2015.03.25	Non-Responsive		2.66	Non-Responsive	2.48				
85	2015.03.26	Non-Responsive		2.69	Non-Responsive	1.57				
86	2015.03.27	Non-Responsive		2.28	Non-Responsive	2.02	Malfunction	unsuccessful calibration- 4 hrs	Multiple data	Part 75 applied
87	2015.03.28	Non-Responsive		3.19	Non-Responsive	3.73				
88	2015.03.29	Non-Responsive		4.19	Non-Responsive	2.17				
89	2015.03.30	Non-Responsive		3.56	Non-Responsive	2.80				
90	2015.03.31	Non-Responsive		1.91	Non-Responsive	1.98				
91	2015.04.01	Non-Responsive		2.81	Non-Responsive	3.40	Malfunction	unsuccessful calibration- 2 hrs	Multiple data	Part 75 applied
92	2015.04.02	Non-Responsive		3.23	Non-Responsive	1.55				
93	2015.04.03	Non-Responsive		3.12	Non-Responsive	1.76				
94	2015.04.04	Non-Responsive		2.58	Non-Responsive	2.72				
95	2015.04.05	Non-Responsive		2.73	Non-Responsive	1.65				
96	2015.04.06	Non-Responsive		1.77	Non-Responsive	0.17				
97	2015.04.07	Non-Responsive		1.79	Non-Responsive	0.07				
98	2015.04.08	Non-Responsive		1.63	Non-Responsive	0.59				
99	2015.04.09	Non-Responsive		0.98	Non-Responsive	0.14				
100	2015.04.10	Non-Responsive		1.59	Non-Responsive	0.10				
101	2015.04.11	Non-Responsive		1.05	Non-Responsive	0.07				
102	2015.04.12	Non-Responsive		2.97	Non-Responsive	0.05				
103	2015.04.13	Non-Responsive		2.58	Non-Responsive	0.13				
104	2015.04.14	Non-Responsive		2.96	Non-Responsive	0.41				
105	2015.04.15	Non-Responsive		3.25	Non-Responsive	0.23				
106	2015.04.16	Non-Responsive		4.46	Non-Responsive	0.03				
107	2015.04.17	Non-Responsive		3.80	Non-Responsive	0.05	Malfunction	unsuccessful calibration- 3 hrs	Multiple data	Part 75 applied
108	2015.04.18	Non-Responsive		4.28	Non-Responsive	0.06				
109	2015.04.19	Non-Responsive		4.53	Non-Responsive	0.16	Malfunction	unsuccessful calibration - 6 hrs	Multiple data	Part 75 applied
110	2015.04.20	Non-Responsive		1.29	Non-Responsive	0.03	Malfunction	unsuccessful calibration - 3 hrs	Multiple data	Part 75 applied
111	2015.04.21	Non-Responsive		1.72	Non-Responsive	0.25	Malfunction	sample system plugged - 3 hrs	Multiple data	Part 75 applied
112	2015.04.22	Non-Responsive		1.61	Non-Responsive	0.02				
113	2015.04.23	Non-Responsive		2.17	Non-Responsive	0.05				
114	2015.04.24	Non-Responsive		4.30	Non-Responsive	0.14				
115	2015.04.25	Non-Responsive		4.88	Non-Responsive	0.77				
116	2015.04.26	Non-Responsive		5.36	Non-Responsive	0.53				
117	2015.04.27	Non-Responsive		2.84	Non-Responsive	0.31				
118	2015.04.28	Non-Responsive		1.48	Non-Responsive	0.30				
119	2015.04.29	Non-Responsive		2.01	Non-Responsive	0.27				
120	2015.04.30	Non-Responsive		1.91	Non-Responsive	0.12				
121	2015.05.01	Non-Responsive		2.91	Non-Responsive	0.68				
122	2015.05.02			2.48		0.78				

U.S. EPA Consent Decree
Semi-Annual Report CEMS Data

Contains Confidential Business Information

Joppa, Illinois
K1

Data collection period: 01 Jan 2015 - 30 Jun 2015
Submittal date: 16 July 2015

(*) CONFIDENTIAL BUSINESS INFORMATION

Days in reporting period	Date	Kiln (clinker) production (*) [ton/d]	Stack NO_x Mass (*) [lb/d]	Stack NO_x Intensity [lb/ton KK]	Stack SO_2 Mass (*) [lb/d]	Stack SO_2 Intensity [lb/ton KK]	Malfunction documentation CEMS incident type	Malfunction documentation Explanation	Data gap documentation Missing data	Data gap documentation Explanation
123	2015.05.03	Non-Responsive		3.00	Non-Responsive	1.22				
124	2015.05.04	Non-Responsive		2.04	Non-Responsive	0.08				
125	2015.05.05	Non-Responsive		1.84	Non-Responsive	0.02				
126	2015.05.06	Non-Responsive		2.70	Non-Responsive	0.35				
127	2015.05.07	Non-Responsive		1.85	Non-Responsive	0.01	Malfunction	sample system failed - 20 hrs	Multiple data	Part 75 applied
128	2015.05.08	Non-Responsive		1.98	Non-Responsive	0.02				
129	2015.05.09	Non-Responsive		2.07	Non-Responsive	0.05				
130	2015.05.10	Non-Responsive		2.32	Non-Responsive	0.41				
131	2015.05.11	Non-Responsive		2.40	Non-Responsive	0.24				
132	2015.05.12	Non-Responsive		2.30	Non-Responsive	0.08	Malfunction	unsuccessful calibration - 1 hr	Multiple data	Part 75 applied
133	2015.05.13	Non-Responsive		2.03	Non-Responsive	0.05				
134	2015.05.14	Non-Responsive		2.93	Non-Responsive	0.01				
135	2015.05.15	Non-Responsive		3.01	Non-Responsive	0.01				
136	2015.05.16	Non-Responsive		1.84	Non-Responsive	0.04				
137	2015.05.17	Non-Responsive		2.10	Non-Responsive	0.07	Malfunction	unsuccessful calibration - 1 hr	Multiple data	Part 75 applied
138	2015.05.18	Non-Responsive		5.15	Non-Responsive	0.17				
139	2015.05.19	Non-Responsive		3.07	Non-Responsive	0.14				
140	2015.05.20	Non-Responsive		3.07	Non-Responsive	0.01				
141	2015.05.21	Non-Responsive		1.94	Non-Responsive	0.02	Malfunction	unsuccessful calibration - 1 hr	Multiple data	Part 75 applied
142	2015.05.22	Non-Responsive		2.91	Non-Responsive	0.07				
143	2015.05.23	Non-Responsive		3.08	Non-Responsive	0.11	Malfunction	unsuccessful calibration - 4 hrs	Multiple data	Part 75 applied
144	2015.05.24	Non-Responsive		3.41	Non-Responsive	0.06				
145	2015.05.25	Non-Responsive		3.23	Non-Responsive	0.11				
146	2015.05.26	Non-Responsive		3.25	Non-Responsive	0.12				
147	2015.05.27	Non-Responsive		1.98	Non-Responsive	0.02				
148	2015.05.28	Non-Responsive		1.50	Non-Responsive	0.02				
149	2015.05.29	Non-Responsive	N/A		Non-Responsive	N/A			All data	Kiln was down
150	2015.05.30	Non-Responsive	N/A		Non-Responsive	N/A			All data	Kiln was down
151	2015.05.31	Non-Responsive	N/A		Non-Responsive	N/A			All data	Kiln was down
152	2015.06.01	Non-Responsive	N/A		Non-Responsive	N/A				
153	2015.06.02	Non-Responsive		8.31	Non-Responsive	3.56	Malfunction	unsuccessful calibration - 7 hrs	Multiple data	Part 75 applied
154	2015.06.03	Non-Responsive		2.56	Non-Responsive	0.19				
155	2015.06.04	Non-Responsive		3.77	Non-Responsive	0.44				
156	2015.06.05	Non-Responsive		5.55	Non-Responsive	0.90				
157	2015.06.06	Non-Responsive		4.07	Non-Responsive	1.50				
158	2015.06.07	Non-Responsive		2.06	Non-Responsive	0.52				
159	2015.06.08	Non-Responsive		0.91	Non-Responsive	0.15	Malfunction	unsuccessful calibration - 10 hrs	Multiple data	Part 75 applied
160	2015.06.09	Non-Responsive		0.36	Non-Responsive	0.03				
161	2015.06.10	Non-Responsive		2.10	Non-Responsive	0.77	Malfunction	unsuccessful calibration - 2 hrs	Multiple data	
162	2015.06.11	Non-Responsive		1.96	Non-Responsive	0.84				
163	2015.06.12	Non-Responsive		0.55	Non-Responsive	0.06				
164	2015.06.13	Non-Responsive	N/A		Non-Responsive	N/A			All data	Kiln was down
165	2015.06.14	Non-Responsive	N/A		Non-Responsive	N/A			All data	Kiln was down
166	2015.06.15	Non-Responsive	N/A		Non-Responsive	N/A			All data	Kiln was down
167	2015.06.16	Non-Responsive	N/A		Non-Responsive	N/A			All data	Kiln was down
168	2015.06.17	Non-Responsive	N/A		Non-Responsive	N/A			All data	Kiln was down
169	2015.06.18	Non-Responsive	N/A		Non-Responsive	N/A			All data	Kiln was down
170	2015.06.19	Non-Responsive	N/A		Non-Responsive	N/A				
171	2015.06.20	Non-Responsive		0.84	Non-Responsive	0.95				
172	2015.06.21	Non-Responsive		1.69	Non-Responsive	0.09	Malfunction	unsuccessful calibration - 2 hrs	Multiple data	Part 75 applied
173	2015.06.22	Non-Responsive		2.77	Non-Responsive	0.74				
174	2015.06.23	Non-Responsive		2.63	Non-Responsive	1.16				
175	2015.06.24	Non-Responsive		2.22	Non-Responsive	0.59				
176	2015.06.25	Non-Responsive		1.31	Non-Responsive	0.07				
177	2015.06.26	Non-Responsive		2.05	Non-Responsive	1.20				
178	2015.06.27	Non-Responsive		2.09	Non-Responsive	0.68				
179	2015.06.28	Non-Responsive		2.44	Non-Responsive	1.37				
180	2015.06.29	Non-Responsive		1.25	Non-Responsive	0.33				
181	2015.06.30	[redacted]		2.74	Non-Responsive	1.30				

U.S. EPA Consent Decree
Semi-Annual Report CEMS Data

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Joppa, Illinois
K2

Data collection period: 01 Jan 2015 - 30 Jun 2015
Submittal date: 16 July 2015

(*) CONFIDENTIAL BUSINESS INFORMATION

Days in reporting period	Date	Kiln (clinker) production (*) [ton/d]	Stack NO_x Mass (*) [lb/d]	Stack NO_x Intensity [lb/ton KK]	Stack SO_2 Mass (*) [lb/d]	Stack SO_2 Intensity [lb/ton KK]	Malfunction documentation CEMS incident type	Malfunction documentation Explanation	Data gap documentation Missing data	Data gap documentation Explanation
1	2015.01.01	Non-Responsive		N/A		N/A			All data	Kiln was down
2	2015.01.02	Non-Responsive		N/A		N/A			All data	Kiln was down
3	2015.01.03	Non-Responsive		N/A		N/A			All data	Kiln was down
4	2015.01.04	Non-Responsive		N/A		N/A			All data	Kiln was down
5	2015.01.05	Non-Responsive		N/A		N/A			All data	Kiln was down
6	2015.01.06	Non-Responsive		N/A		N/A			All data	Kiln was down
7	2015.01.07	Non-Responsive		N/A		N/A			All data	Kiln was down
8	2015.01.08	Non-Responsive		N/A		N/A			All data	Kiln was down
9	2015.01.09	Non-Responsive		N/A		N/A			All data	Kiln was down
10	2015.01.10	Non-Responsive		N/A		N/A			All data	Kiln was down
11	2015.01.11	Non-Responsive		N/A		N/A			All data	Kiln was down
12	2015.01.12	Non-Responsive		N/A		N/A			All data	Kiln was down
13	2015.01.13	Non-Responsive		N/A		N/A			All data	Kiln was down
14	2015.01.14	Non-Responsive		N/A		N/A			All data	Kiln was down
15	2015.01.15	Non-Responsive		N/A		N/A			All data	Kiln was down
16	2015.01.16	Non-Responsive		N/A		N/A			All data	Kiln was down
17	2015.01.17	Non-Responsive		N/A		N/A			All data	Kiln was down
18	2015.01.18	Non-Responsive		N/A		N/A			All data	Kiln was down
19	2015.01.19	Non-Responsive		N/A		N/A			All data	Kiln was down
20	2015.01.20	Non-Responsive		N/A		N/A			All data	Kiln was down
21	2015.01.21	Non-Responsive		N/A		N/A			All data	Kiln was down
22	2015.01.22	Non-Responsive		N/A		N/A			All data	Kiln was down
23	2015.01.23	Non-Responsive		N/A		N/A			All data	Kiln was down
24	2015.01.24	Non-Responsive		N/A		N/A			All data	Kiln was down
25	2015.01.25	Non-Responsive		N/A		N/A			All data	Kiln was down
26	2015.01.26	Non-Responsive		N/A		N/A			All data	Kiln was down
27	2015.01.27	Non-Responsive		N/A		N/A			All data	Kiln was down
28	2015.01.28	Non-Responsive		N/A		N/A			All data	Kiln was down
29	2015.01.29	Non-Responsive		N/A		N/A			All data	Kiln was down
30	2015.01.30	Non-Responsive		N/A		N/A			All data	Kiln was down
31	2015.01.31	Non-Responsive		N/A		N/A			All data	Kiln was down
32	2015.02.01	Non-Responsive		N/A		N/A			All data	Kiln was down
33	2015.02.02	Non-Responsive		N/A		N/A			All data	Kiln was down
34	2015.02.03	Non-Responsive		N/A		N/A			All data	Kiln was down
35	2015.02.04	Non-Responsive		N/A		N/A			All data	Kiln was down
36	2015.02.05	Non-Responsive		N/A		N/A			All data	Kiln was down
37	2015.02.06	Non-Responsive		N/A		N/A			All data	Kiln was down
38	2015.02.07	Non-Responsive		N/A		N/A			All data	Kiln was down
39	2015.02.08	Non-Responsive		N/A		N/A			All data	Kiln was down
40	2015.02.09	Non-Responsive		N/A		N/A			All data	Kiln was down
41	2015.02.10	Non-Responsive		N/A		N/A			All data	Kiln was down
42	2015.02.11	Non-Responsive		N/A		N/A			All data	Kiln was down
43	2015.02.12	Non-Responsive		N/A		N/A			All data	Kiln was down
44	2015.02.13	Non-Responsive		N/A		N/A			All data	Kiln was down
45	2015.02.14	Non-Responsive		N/A		N/A			All data	Kiln was down
46	2015.02.15	Non-Responsive		N/A		N/A			All data	Kiln was down
47	2015.02.16	Non-Responsive		N/A		N/A			All data	Kiln was down
48	2015.02.17	Non-Responsive		N/A		N/A			All data	Kiln was down
49	2015.02.18	Non-Responsive		N/A		N/A			All data	Kiln was down
50	2015.02.19	Non-Responsive		N/A		N/A			All data	Kiln was down
51	2015.02.20	Non-Responsive		N/A		N/A			All data	Kiln was down
52	2015.02.21	Non-Responsive		N/A		N/A			All data	Kiln was down
53	2015.02.22	Non-Responsive		N/A		N/A			All data	Kiln was down
54	2015.02.23	Non-Responsive		N/A		N/A			All data	Kiln was down
55	2015.02.24	Non-Responsive		N/A		N/A			All data	Kiln was down
56	2015.02.25	Non-Responsive		N/A		N/A			All data	Kiln was down
57	2015.02.26	Non-Responsive		N/A		N/A			All data	Kiln was down
58	2015.02.27	Non-Responsive		N/A		N/A			All data	Kiln was down
59	2015.02.28	Non-Responsive		N/A		N/A			All data	Kiln was down
60	2015.03.01	Non-Responsive		N/A		N/A			All data	Kiln was down
61	2015.03.02	Non-Responsive		N/A		N/A			All data	Kiln was down

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62	2015.03.03	Non-Responsive		N/A		N/A			All data	Kiln was down
63	2015.03.04	Non-Responsive		N/A		N/A			All data	Kiln was down
64	2015.03.05	Non-Responsive		N/A		N/A			All data	Kiln was down
65	2015.03.06	Non-Responsive		N/A		N/A			All data	Kiln was down
66	2015.03.07	Non-Responsive		N/A		N/A			All data	Kiln was down
67	2015.03.08	Non-Responsive		N/A		N/A			All data	Kiln was down
68	2015.03.09	Non-Responsive		N/A		N/A			All data	Kiln was down
69	2015.03.10	Non-Responsive		N/A		N/A			All data	Kiln was down
70	2015.03.11	Non-Responsive		N/A		N/A			All data	Kiln was down
71	2015.03.12	Non-Responsive		N/A		N/A			All data	Kiln was down
72	2015.03.13	Non-Responsive		N/A		N/A			All data	Kiln was down
73	2015.03.14	Non-Responsive		N/A		N/A			All data	Kiln was down
74	2015.03.15	Non-Responsive		N/A		N/A			All data	Kiln was down
75	2015.03.16	Non-Responsive		N/A		N/A			All data	Kiln was down
76	2015.03.17	Non-Responsive		N/A		N/A			All data	Kiln was down
77	2015.03.18	Non-Responsive		N/A		N/A			All data	Kiln was down
78	2015.03.19	Non-Responsive		N/A		N/A			All data	Kiln was down
79	2015.03.20	Non-Responsive		N/A		N/A			All data	Kiln was down
80	2015.03.21	Non-Responsive		N/A		N/A			All data	Kiln was down
81	2015.03.22	Non-Responsive		N/A		N/A			All data	Kiln was down
82	2015.03.23	Non-Responsive		N/A		N/A			All data	Kiln was down
83	2015.03.24	Non-Responsive		N/A		N/A			All data	Kiln was down
84	2015.03.25	Non-Responsive		N/A		N/A			All data	Kiln was down
85	2015.03.26	Non-Responsive		N/A		N/A			All data	Kiln was down
86	2015.03.27	Non-Responsive		N/A		N/A			All data	Kiln was down
87	2015.03.28	Non-Responsive		N/A		N/A			All data	Kiln was down
88	2015.03.29	Non-Responsive		N/A		N/A			All data	Kiln was down
89	2015.03.30	Non-Responsive		N/A		N/A			All data	Kiln was down
90	2015.03.31	Non-Responsive		N/A		N/A			All data	Kiln was down
91	2015.04.01	Non-Responsive		N/A		N/A			All data	Kiln was down
92	2015.04.02	Non-Responsive		N/A		N/A			All data	Kiln was down
93	2015.04.03	Non-Responsive		N/A		N/A			All data	Kiln was down
94	2015.04.04	Non-Responsive		N/A		N/A			All data	Kiln was down
95	2015.04.05	Non-Responsive		N/A		N/A			All data	Kiln was down
96	2015.04.06	Non-Responsive		N/A		N/A			All data	Kiln was down
97	2015.04.07	Non-Responsive		N/A		N/A			All data	Kiln was down
98	2015.04.08	Non-Responsive		N/A		N/A			All data	Kiln was down
99	2015.04.09	Non-Responsive		N/A		N/A			All data	Kiln was down
100	2015.04.10	Non-Responsive		N/A		N/A			All data	Kiln was down
101	2015.04.11	Non-Responsive		N/A		N/A			All data	Kiln was down
102	2015.04.12	Non-Responsive		N/A		N/A			All data	Kiln was down
103	2015.04.13	Non-Responsive		N/A		N/A			All data	Kiln was down
104	2015.04.14	Non-Responsive		N/A		N/A			All data	Kiln was down
105	2015.04.15	Non-Responsive		N/A		N/A			All data	Kiln was down
106	2015.04.16	Non-Responsive		N/A		N/A			All data	Kiln was down
107	2015.04.17	Non-Responsive		N/A		N/A			All data	Kiln was down
108	2015.04.18	Non-Responsive		N/A		N/A			All data	Kiln was down
109	2015.04.19	Non-Responsive		N/A		N/A			All data	Kiln was down
110	2015.04.20	Non-Responsive		N/A		N/A			All data	Kiln was down
111	2015.04.21	Non-Responsive		N/A		N/A			All data	Kiln was down
112	2015.04.22	Non-Responsive		N/A		N/A			All data	Kiln was down
113	2015.04.23	Non-Responsive		N/A		N/A			All data	Kiln was down
114	2015.04.24	Non-Responsive		N/A		N/A			All data	Kiln was down
115	2015.04.25	Non-Responsive		N/A		N/A			All data	Kiln was down
116	2015.04.26	Non-Responsive		N/A		N/A			All data	Kiln was down
117	2015.04.27	Non-Responsive		N/A		N/A			All data	Kiln was down
118	2015.04.28	Non-Responsive		N/A		N/A			All data	Kiln was down
119	2015.04.29	Non-Responsive		N/A		N/A			All data	Kiln was down
120	2015.04.30	Non-Responsive		N/A		N/A			All data	Kiln was down
121	2015.05.01	Non-Responsive		N/A		N/A			All data	Kiln was down
122	2015.05.02	Non-Responsive		N/A		N/A			All data	Kiln was down

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123	2015.05.03	Non-Responsive		N/A		N/A			All data	Kiln was down
124	2015.05.04	Non-Responsive		N/A		N/A			All data	Kiln was down
125	2015.05.05	Non-Responsive		N/A		N/A			All data	Kiln was down
126	2015.05.06	Non-Responsive		N/A		N/A			All data	Kiln was down
127	2015.05.07	Non-Responsive		N/A		N/A			All data	Kiln was down
128	2015.05.08	Non-Responsive		N/A		N/A			All data	Kiln was down
129	2015.05.09	Non-Responsive		N/A		N/A			All data	Kiln was down
130	2015.05.10	Non-Responsive		N/A		N/A			All data	Kiln was down
131	2015.05.11	Non-Responsive		N/A		N/A			All data	Kiln was down
132	2015.05.12	Non-Responsive		N/A		N/A			All data	Kiln was down
133	2015.05.13	Non-Responsive		N/A		N/A			All data	Kiln was down
134	2015.05.14	Non-Responsive		N/A		N/A			All data	Kiln was down
135	2015.05.15	Non-Responsive		N/A		N/A			All data	Kiln was down
136	2015.05.16	Non-Responsive		N/A		N/A			All data	Kiln was down
137	2015.05.17	Non-Responsive		N/A		N/A			All data	Kiln was down
138	2015.05.18	Non-Responsive		N/A		N/A			All data	Kiln was down
139	2015.05.19	Non-Responsive		N/A		N/A			All data	Kiln was down
140	2015.05.20	Non-Responsive		N/A		N/A			All data	Kiln was down
141	2015.05.21	Non-Responsive		N/A		N/A			All data	Kiln was down
142	2015.05.22	Non-Responsive		N/A		N/A			All data	Kiln was down
143	2015.05.23	Non-Responsive		N/A		N/A			All data	Kiln was down
144	2015.05.24	Non-Responsive		N/A		N/A			All data	Kiln was down
145	2015.05.25	Non-Responsive		N/A		N/A			All data	Kiln was down
146	2015.05.26	Non-Responsive		N/A		N/A			All data	Kiln was down
147	2015.05.27	Non-Responsive		N/A		N/A			All data	Kiln was down
148	2015.05.28	Non-Responsive		N/A		N/A			All data	Kiln was down
149	2015.05.29	Non-Responsive		N/A		N/A			All data	Kiln was down
150	2015.05.30	Non-Responsive		N/A		N/A			All data	Kiln was down
151	2015.05.31	Non-Responsive		N/A		N/A			All data	Kiln was down
152	2015.06.01	Non-Responsive		N/A		N/A			All data	Kiln was down
153	2015.06.02	Non-Responsive		N/A		N/A			All data	Kiln was down
154	2015.06.03	Non-Responsive		N/A		N/A			All data	Kiln was down
155	2015.06.04	Non-Responsive		N/A		N/A			All data	Kiln was down
156	2015.06.05	Non-Responsive		N/A		N/A			All data	Kiln was down
157	2015.06.06	Non-Responsive		N/A		N/A			All data	Kiln was down
158	2015.06.07	Non-Responsive		N/A		N/A			All data	Kiln was down
159	2015.06.08	Non-Responsive		N/A		N/A			All data	Kiln was down
160	2015.06.09	Non-Responsive		N/A		N/A			All data	Kiln was down
161	2015.06.10	Non-Responsive		N/A		N/A			All data	Kiln was down
162	2015.06.11	Non-Responsive		N/A		N/A			All data	Kiln was down
163	2015.06.12	Non-Responsive		N/A		N/A			All data	Kiln was down
164	2015.06.13	Non-Responsive		N/A		N/A			All data	Kiln was down
165	2015.06.14	Non-Responsive		N/A		N/A			All data	Kiln was down
166	2015.06.15	Non-Responsive		N/A		N/A			All data	Kiln was down
167	2015.06.16	Non-Responsive		N/A		N/A			All data	Kiln was down
168	2015.06.17	Non-Responsive		N/A		N/A			All data	Kiln was down
169	2015.06.18	Non-Responsive		N/A		N/A			All data	Kiln was down
170	2015.06.19	Non-Responsive		N/A		N/A			All data	Kiln was down
171	2015.06.20	Non-Responsive		N/A		N/A			All data	Kiln was down
172	2015.06.21	Non-Responsive		N/A		N/A			All data	Kiln was down
173	2015.06.22	Non-Responsive		N/A		N/A			All data	Kiln was down
174	2015.06.23	Non-Responsive		N/A		N/A			All data	Kiln was down
175	2015.06.24	Non-Responsive		N/A		N/A			All data	Kiln was down
176	2015.06.25	Non-Responsive		N/A		N/A			All data	Kiln was down
177	2015.06.26	Non-Responsive		N/A		N/A			All data	Kiln was down
178	2015.06.27	Non-Responsive		N/A		N/A			All data	Kiln was down
179	2015.06.28	Non-Responsive		N/A		N/A			All data	Kiln was down
180	2015.06.29	Non-Responsive		N/A		N/A			All data	Kiln was down
181	2015.06.30	Non-Responsive		N/A		N/A			All data	Kiln was down

Appendix B: Facility-wide 12-month rolling tonnage calculations

U.S. EPA Consent Decree
12-Month Rolling Tonnage

Contains Confidential Business Information

Joppa, Illinois
Facility-wide (all kilns)

Data collection period: 01 Jan 2015 to 30 Jun 2015
Submittal date: 16 July 2015

(*) CONFIDENTIAL BUSINESS INFORMATION

Month	Year	Stack NO_x mass rate(*) K1 [lb/mo]	K1 [ton/mo]	K2 [lb/mo]	K2 [ton/mo]	Kiln [lb/mo]	Kiln [ton/mo]	Kiln [lb/mo]	Kiln [ton/mo]	Kiln [lb/mo]	Kiln [ton/mo]	Plant [lb/mo]	Plant [ton/mo]	12-mo rolling tonnage [ton]
February	2014	Non-Responsive												—
March	2014													—
April	2014													—
May	2014													—
June	2014													—
July	2014													—
August	2014													—
September	2014													—
October	2014													—
November	2014													—
December	2014													—
January	2015													470
February	2015													441
March	2015													387
April	2015													407
May	2015													423
June	2015													428

Month	Year	Stack SO_2 mass rate(*) K1 [lb/mo]	K1 [ton/mo]	K2 [lb/mo]	K2 [ton/mo]	Kiln [lb/mo]	Kiln [ton/mo]	Kiln [lb/mo]	Kiln [ton/mo]	Kiln [lb/mo]	Kiln [ton/mo]	Plant [lb/mo]	Plant [ton/mo]	12-mo rolling tonnage [ton]
February	2014	Non-Responsive												—
March	2014													—
April	2014													—
May	2014													—
June	2014													—
July	2014													—
August	2014													—
September	2014													—
October	2014													—
November	2014													—
December	2014													—
January	2015													440
February	2015													433
March	2015													439
April	2015													420
May	2015													384
June	2015													363

END OF REPORT